NOTES MAIN -THE SPECIAL ANCHOR HAS NOT BEEN TESTED AS A CRASHWORTHY END TREATMENT FOR APPROACHING TRAFFIC ON THE INTERSECTING ROADWAY. THEREFORE, ITS USE SHALL BE LIMITED TO DRIVEWAYS OR SERVICE ROADWAYS PARALLELING DRAINAGE FACILITIES. IF THE ROAD PARALLELING THE DRAINAGE FACILITY CARRIES MAJOR TRAFFIC, A CRASHWORTHY END TREATMENT SHALL BE USED IN LIEU OF THE 25'-0" GUARD RAIL TRANSITION (DOUBLE THRIE BEAM) 704-08-B SEE NOTE 2 & 3 SEE SHT. 3 OF 9 FOR DETAILS- EXCEPT AT SECTION B-B SPECIAL ANCHOR SECTION. 4 EQ. SP. = 12'-6" 6'-3" THE CURVED GUARD RAIL SECTION SHALL BE SHOP BENT. 2'-11/4" 3. THE RAIL IS NOT BOLTED TO THE CRT POST AT THE CENTER OF THE NOSE AS SHOWN. 6'-3" W-THRIE BEAM NO WASHERS ARE USED ON THE %" ϕ button head bolts connecting the rail to the cable release terminal (CRT) posts. 71/4" TRANSITION ATTACH W-BEAM TO STEEL PIPE WITH 2" LG X %" BUTTON HEAD BOLT WITH NO WASHER. NO CONNECTION TO POST IS REQUIRED. BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 307 AND NUTS TO THE REQUIREMENTS OF ASTM A 563, GRADE A OR BETTER, AND BE GALVANIZED IN ACCORDANCE WITH ASTM A 153. OBJECT WIRE ROPE CABLE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 30 AND SHALL BE 34 WOOD POST AND BLOCK DIMENSIONS PREFORMED, 6 X 19, WIRE STRAND CORE OR INDEPENDENT WIRE ROPE CORE, GALVANIZED, RIGHT REGULAR LAY, MANUFACTURED OF IMPROVED PLOW STEEL WITH A MINIMUM BREAKING STRENGTH APPROACH ROADWAY. 6'-8" GUARD RAIL TRANSITION DOUBLE THRIE BEAM) 704-08-B ASSEMBL Y LINE GUARD RAIL ① 10" X 10" X 6'-6" G. MAGEE P. FOSSIER MAY, 2001 6 OF 9 @ 6" X 8" X 1'-101/2" 3 EQ. SP. = 6'-3" 2 EQ. SPA. = 3'-11/2" ALL ANGLES, CHANNELS AND PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 36 AND STRUCTURAL TUBING TO ASTM A 500. WELDING SHALL MEET THE CURRENT REQUIREMENTS OF THE ANSI/AASHTO/AWS, BRIDGE WELDING CODE. ALL STRUCTURAL STELL SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 123. NO PUNCHING, DRILLING, CUTTING OR WELDING WILL BE PERMITTED 4'-2" ③ 8" X 8" X 6'-0" 2'-11/4" 6'-3" W-THRIE BEAM **(4)** 6" X 8" X 6'-0" (CRT) 71/4" TRANSITION ⑤ 6" X 8" X 3'-61/2" (A) - (D) - THE WOOD BREAKAWAY POST SHALL BE S4S TIMBER WITH A STRESS GRADE OF 1200 PSI AND SHALL BE GRADE MARKED OR CERTIFIED BY A RECOGNIZED ASSOCIATION OR AGENCY WHICH IS CERTIFIED BY THE BOARD OF REVIEW, AMERICAN LUMBER STANDARDS COMMITTEE, TO GRADE 2 | - 2 3 | X 6 6" X 8" X 6'-0" \boxtimes ⑦ 6" X 8" X 1'-2" OBJECT MARKER ASSEMBL' (igota)10. FOR BOLT DETAILS, SEE SHEET NO. 9 OF 9. CRT BACKUP SEE NOTE 2 & 3. GUARD RAIL TRANSITIONS FOR NON-FLEXIBLE BRIDGE RAILS II. WOOD POST AND BLOCKS SHALL BE TREATED IN ACCORDANCE WITH SECTION 1014 OF DOTD STD. SPECIFICATIONS. (UPPER LAYOUT - DESIRED AND LOWER LAYOUT - MINIMUM) Ø FLEXIBLE BRIDGE RAIL 704-01-B 34" ¢ X 9'-0" CABLE WITH ONE SWAGED END 5 EQ. SP. = 15'-7/2" GUARD RAIL (SINGLE THRIE BEAM) 704-01-A \boxtimes LINE GUARDRAÍL TERMINAL CONNECTOR (SEE NOTE 7 & SHT. 9 OF 9) -ANCHOR PLATE SEE SHT. 9 OF 9 3/4" DIA. x 6'-6" CABLE (SEE SHT. 9 OF 9) POST ON BRIDGE W-BEAM SECTION (BUFFER) (ADJUST TO FIT) SEE DETAIL "A" Signed by Chief 12'-6" (MINIMUM) 25'-0" (DESIRABL -@-OBJECT MARKER \boxtimes -2" LG. X 5% " Φ BUTTON HEAD BOLT & RECESS NUT GUARD RAIL TRANSITIONS FOR FLEXIBLE BRIDGE RAILS NOTE: BEG. STANDARD WOOD OR STEEL POST GUARD RAIL SECTION OR USE SPECIAL ANCHOR AS SHOWN 1-6" %" & HEX BOLT & NUT WITH 2 RECTANGULAR PLATE WASHERS SEE ABOVE DETAIL FOR CONTINUING GUARDRAIL %" → BUTTO HEAD BOLT ' φ BUTTON PLAN LAYOUT 6'-3" SPECIAL ANCHOR SECTION (SEE DETAIL & NO TACK WELD $2^{1}/2^{"}$ X $2^{1}/2^{"}$ X $1/4^{"}$ STEEL TUBE WITH $1^{1}/16^{"}$ Φ HOLE TO 3/4" ♦ X 9'-0" CABLE 6'-3" SPECIAL ANCHOR SECTION (S-8" X 6" X 3/6" STRUCTURAL TUBING 6'-3" TO NEXT POST 1,-6, TIMBER BREAKAWAY 1'-0" TIMBER BREAKAWAY SEE DETAIL "B" GUARD RAIL POST, SEE SHT. 7 OF 9 FOR DETAILS ANCHOR PLATE TIMBER BREAKAWAY DETAIL "A" SEE NOTE 13, SHEET 1 OF 9 FOR RETROREFLECTIVE ADHESIVE SHEETING HIGHWAY GUARD RAILS BRIDGE ENDS (T-INTERSECTION) 34" CABLE CLIPS (6 REQ'D.) TORQUE NUTS TO 50 FT-LBS. SEE DETAIL "A" SOIL PLATE SEE SHT. 9 OF 6" x 8" x 6' CRT WOOD POST, MODIFIED AS SHOWN AND 34" + X 9'-0" CABLE 10" O.D. SCHEDULE 40 GALV. STEEL PIPE 6" X 8" X 1'-2" WOOD BLOCK 34" 4 X 6'-6" CABLE~ PRESERVATIVE TREATED AFTER TOE NAIL WITH ONE (I) 16d GALV. NAIL ON EACH SIDE OF BLOCK - WELDED CONNECTION OPTION FOR SOLE PLATE & STEEL TUBE CONNECTION DRILLING 2 - 71/2" LG. - 1/2" + HEX BOLTS 8 NUTS WITH 2 WASHERS EACH (TYP.) IO" LG. - %" ¢ BUTTON HEAD BOLT STEEL PLATE ·IO" LG. - %" ¢ HEX BOLT & NUT WITH 2 WASHERS EA. (TYP.) (SEE SHEET 9 OF 9) & RECESS NUT - %" ♦ BUTTON HEAD BOLT (18" LG.) & RECESS NUT SOIL PLATE OF 9 **ELEVATION** 31/2" + HOLES CENTERED IN POST pota `6" X 8" X 6'-0" CRT POST SPECIAL ANCHOR SECTION DETAIL "B" SECTION A - A SECTION B - B BRIDGE AND